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Function Generator

GFG-8020H (2MHz)

*** Frequency Range: 0.2Hz ~ 2MHz**
*** Coarse and Fine Tuning**
*** Sine, Triangle, Square, TTL Pulse and CMOS Output**
*** Built-in 4 Digit Counter (INT only)**
*** Large 0.5" LED Display**
*** Variable DC Offset Control**
*** Output Overload Protection**

GFG-8016G (2MHz)

*** Frequency Range: 0.2Hz ~ 2MHz**
*** Three Instruments in one, Function Generator, Pulse Generator & Frequency Counter**
*** Sine, Triangle, Square, TTL Pulse and CMOS Output**
*** Built-in 6 Digit Counter with INT/EXT Function**
*** 1000:1 Tuning Range**
*** Variable DC Offset Control**
*** Output Overload Protection**

SPECIFICATIONS

MAIN OUTPUT	**Waveforms**	SINE, TRIANGLE, SQUARE, TTL pulse and CMOS output
	Amplitude	>20Vp-p (open circuit) >10Vp-p (into 50W load)
	Impedance	50W±10%
	Attenuator	-20dB ± 1.0dB (at 1kHz)
	DC Offset	<-10V to > +10V (<-5V to > +5V into 50 W load)
	Duty Control	1:1 to 10:1 continuously rating
	Display	4 digits LED display (GFG-8020H); 6 digits LED display (GFG-8016G)
	Frequency Range	0.2Hz to 2MHz 7 ranges
	Frequency control	Separate coarse and fine tuning (GFG-8020H)
SINE WAVE	**Distortion**	<1% 0.2Hz ~ 20kHz, <2% 20kHz ~ 200kHz (GFG-8020H) <1% 0.2Hz ~ 200kHz (GFG-8016G)
	Frequency Response	<0.2dB 0.2Hz ~ 100kHz, <1dB 100kHz ~ 2MHz (GFG-8020H) <0.1dB 0.2Hz ~ 100kHz, <0.5dB 100kHz ~ 2MHz (GFG-8016G)
TRIANGLE WAVE	**Linear**	98% 0.2Hz ~ 100kHz, 95% 100kHz ~ 2MHz
SQUARE WAVE	**Symmetry**	<2% 0.2Hz ~ 100kHz
	Rise/Fall Time	<120nS
CMOS OUTPUT	**Level**	(4Vp-p ±1Vp-p) ~ (14.5Vp-p±0.5Vp-p) adjustable
	Rise/Fall Time	<120nS
TTL OUTPUT	**Level**	>3Vp-p
	Rise/Fall Time	<30nS (GFG-8020H) <25nS (GFG-8016G)
V.C.F.	**Input Voltage**	Approx. 0V ~ 10V (±1V) input for 10:1 frequency ratio (GFG-8020H) Approx. 0V ~ 10V (±1V) input for 1000:1 frequency ratio (GFG-8016G)
	Input Impedance	10kW± 10%
FREQUENCY COUNTER	**Mode**	Internal only (GFG-8020H) INT/EXT. switchable (GFG-8016G)
	Range	0.2Hz ~ 2MHz (GFG-8020H) 0.2Hz (5Hz EXT)~10MHz (GFG-8016G)
	Accuracy	±Time base accuracy±1 Count
	Time Base	Oscillation frequency 3.58MHz,Temp.stability± 20PPM (23°C± 5°C)(GFG-8020H) Oscillation frequency 10MHz,Temp.stability± 10PPM (23°C± 5°C)(GFG-8016G)
	Resolution	0.1Hz, 1Hz, 10Hz, 100Hz, 1kHz (GFG-8020H) 0.1Hz, 1Hz, 10Hz, 100Hz (GFG-8016G)
	Sensitivity	≤ 25mVrms (GFG-8016G)
POWER SOURCE		AC100V/120V/220V/230V ±10%, 50/60Hz
ACCESSORIES		Power cord x 1, Instruction manual x 1, GTL-101 x 1(GFG-8020H) GTL-101 x 2 (GFG-8016G)
DIMENSIONS & WEIGHT		230(W) x 95(H) x 280(D) mm, Approx. 2.1kg